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NOTICE OF ALLOWANCE AND FEE(S) DUE

23911

7590

04/03/2008

CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300 EXAMINER

LULIS, MICHAEL P

ART UNIT PAPER NUMBER

2824

DATE MAILED: 04/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,046	07/16/2003	Shenggao Liu	005950-833	2268

TITLE OF INVENTION: HETEROATOM-CONTAINING DIAMONDOID TRANSISTORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notificat	ions.			_		for domestic mailings of the	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
23911	7590 04/03/	/2008			tificate of Mailing or Tra		
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300			I I St ad tra	hereby certify that thi ates Postal Service wildressed to the Mail ansmitted to the USP.	is Fee(s) Transmittal is be with sufficient postage for Stop ISSUE FEE addre FO (571) 273-2885, on the	first class mail in an envelope ess above, or being facsimile e date indicated below.	
WASHINGTON	, DC 20044-4300					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	DR .	ATTORNEY DOCKET NO	. CONFIRMATION NO.	
10/622,046	07/16/2003		Shenggao Liu		005950-833	2268	
TITLE OF INVENTION:	: HETEROATOM-CON	TAINING DIAMONDO	DID TRANSISTORS				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	E PREV. PAID ISSUE	E FEE TOTAL FEE(S) D	UE DATE DUE	
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/03/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
LULIS, MI	CHAEL P	2824	257-040000				
"Fee Address" indi	once address or indication ondence address (or Chan 1/122) attached. cation (or "Fee Address" 2 or more recent) attach	nge of Correspondence	(1) the names of up or agents OR, alterna	gle firm (having as a r agent) and the name torneys or agents. If i	t attorneys 1		
(A) NAME OF ASSIC	ess an assignee is identi nin 37 CFR 3.11. Comp GNEE	fied below, no assignee letion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assignent assignment. TY and STATE OR C	OUNTRY)	e document has been filed for group entity	
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ A check is enclosed☐ Payment by credit c☐ The Director is here	l. ard. Form PTO-2038	ge the required fee(s), any	·	
5. Change in Entity Stat	us (from status indicated S SMALL ENTITY statu		☐ b. Applicant is no le	onger claiming SMAI	LL ENTITY status. See 37	CFR 1.27(g)(2).	
						or the assignee or other party in	
Authorized Signature				Date			
Typed or printed name	·			Registration N	O		
Alexandria, Virginia 223	13-1430.				he public which is to file (minutes to complete, inclu mments on the amount of Trademark Office, U.S. D . SEND TO: Commission displays a valid OMB cont	and by the USPTO to process) ding gathering, preparing, and f time you require to complete bepartment of Commerce, P.O. ter for Patents, P.O. Box 1450, trol number.	



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10/622,046	07/16/2003	Shenggao Liu	005950-833 2268	
23911 75	90 04/03/2008		EXAM	IINER
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300		LULIS, MICHAEL P		
		ART UNIT	PAPER NUMBER	
			2824 DATE MAILED: 04/03/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 50 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 50 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/622,046	LIU ET AL.		
Notice of Allowability	Examiner	Art Unit		
	MICHAEL LULIS	2824		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this ap) or other appropriate communication RIGHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS	
1. This communication is responsive to 12/13/2007.				
2. X The allowed claim(s) is/are <u>1-9,11-20,22-34,39-44.</u>				
 Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the priority documents have Tertified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application No comments have been received in this of this communication to file a reply	national stage applica		
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date 	son's Patent Drawing Review(PTO- -			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			e back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	 5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr 8. ☐ Examiner's Stateme 9. ☑ Other <u>Search Histor</u> 	(PTO-413), te ment/Comment ent of Reasons for Alk	owance	
	/Richard T. Elms/ SPE AU 2824 3.12.08 & 4.1.08			

Application/Control Number: 10/622,046 Page 2

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the Abstract:

Line 4, --Novel heterodiamondoids are disclosed. These-- has been deleted In the Specification:

Page 6, Line 10, --FIGS. 4A-C-- has been replaced with --FIGS. 4A-4C-- before "present exemplary".

Page 6, Line 13, --FIGS. 5A-B-- has been replaced with --FIGS. 5A-5B-- before "illustrate exemplary".

Page 6, Line 20, --FIGS. 7A-C-- has been replaced with --FIGS. 7A-7C-- before "illustrate an".

Page 6, Line 26, --FIGS. 9A-N-- has been replaced with --FIGS. 9A-9N-- before "show exemplary".

Page 7, Line 6, --FIGS. 13A-B-- has been replaced with --FIGS. 13A-13B-- before "are schematic".

Allowable Subject Matter

Claims 1-9, 11-20, 22-32, and 39-44 are allowed.

Art Unit: 2824

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL LULIS whose telephone number is (571)272-9015. The examiner can normally be reached on 10:00 AM to 6:30 PM Monday through Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Lulis/ Examiner, Art Unit 2824

/Richard Elms/

Supervisory Patent Examiner, Art Unit 2824

3.12.08